

3 Information About Dumps

For each subsystem, what are “known” dumps and how do they happen (e.g., does restarting the staging monitor always cause the ingran server to dump)? What are the known recovery techniques?

There is a mysterious "SGI core dump" bug that has happened in the HdfEos servers at EDC and the same bug has caused Ingest, Storage Management, and the SubAgent servers to core dump, usually while rebinding.

If you get a call to look at an HdfEosServer (or any sgi) core dump, first check the Debug log file. If you see the following line, it's definitely the sgi bug.

Assertion failed in file "../c++runtime/throw.cxx". line 841.

The problem has been isolated to throwing/catching exceptions in pthreads. We have a test program that shows the core dump without any ECS code ... and without any OODCE code. SGI has been notified and is working on it.

3.1 *Ingest*

Sometimes restarting SDSRV, Staging Disk Server or the Ingest Ftp Server cause EcInGran to core dump. Also sometimes restarting EcInGran causes EcInReqMgr to core dump. The recovery technique is to warm restart whatever server core dumped.

3.2 *PDPS*

3.2.1 *DPS*

No information provided.

3.2.2 *PLS*

There are currently no known dumps in the PLS code.

3.3 *Science Data Server*

If you are in the middle of subsetting and you warm start the Staging Disk Server, SDSRV will core dump. This is due to a bug in the L70RWRS DLL. The DLL does not handle error conditions correctly. There is an open NCR (ECSed21266) that addresses this problem. The recovery mechanism is to restart the HDF EOS Servers and Warm Start SDSRV.

There is also a possibility that the SDSRV will core dump while attempting to write to the Application Log when it is full. It has been determined that this is caused by a defect in the Error Logging class and the NCR (ECSed21269) has been forwarded to IDG.

3.4 *IDM*

There are no known core dumps in IDM.

3.5 *Storage Management*

No information provided on this.

3.6 *Data Distribution*

Only known “dump” is when sdsrv or stmgt dumps and we core “sympathetically.” Warm restart.

3.7 *IDG*

There are no known dumps in EmailParser, LandSat7, DAR Communication and MOJO gateways, or in the Subscription Server.

3.8 *MSS*

There are no known dumps in the MSS servers.